

US EPA ARCHIVE DOCUMENT

DP Barcode : D194368
PC Code No : 069105
EEB Out : 4/2/96

To: Larry Schnaubelt
Product Manager
Special Review and Reregistration Division (7508W)

From: Anthony F. Maciorowski, Chief
Ecological Effects Branch/EFED (7507C)

Attached, please find the EEB review of...

Reg./File # : 069105
Chemical Name : Alkyl Dimethyl Benzyl Ammonium Chloride
Type Product : Biocide
Product Name : Various
Company Name : Chemical Specialties Manufacturers Association
Purpose : Review of information submitted to support
upgrading of previously reviewed studies

Action Code : 627 Date Due :
Reviewer : Harry A. Winnik Date In EEB: 08/25/93

EEB Guideline/MRID Summary Table: The review in this package contains an evaluation of the following:

GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT
71-1(A)			72-2(A)			72-7(A)		
71-1(B)			72-2(B)			72-7(B)		
71-2(A)			72-3(A)			122-1(A)		
71-2(B)			72-3(B)			122-1(B)		
71-3			72-3(C)			122-2		
71-4(A)			72-3(D)			123-1(A)		
71-4(B)			72-3(E)			123-1(B)		
71-5(A)			72-3(F)			123-2		
71-5(B)			72-4(A)	423021-02	Y	124-1		
72-1(A)			72-4(B)	423021-01	S	124-2		
72-1(B)			72-5			141-1		
72-1(C)			72-6			141-2		
72-1(D)						141-5		

Y=Acceptable (Study satisfied Guideline)/Concur

P=Partial (Study partially fulfilled Guideline but additional information is needed)

S=Supplemental (Study provided useful information but Guideline was not satisfied)

N=Unacceptable (Study was rejected)/Nonconcur

DP BARCODE: D194368

REREG CASE # 0350

CASE: 819070
SUBMISSION: S446617

DATA PACKAGE RECORD
BEAN SHEET

DATE: 08/23/93
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REREGISTRATION ACTION: 627 GENERIC DATA SUBMISSION
CHEMICALS: 069105 Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 100.00 %

ID#: 069105

COMPANY:

PRODUCT MANAGER: 72 LARRY SCHNAUBELT 703-308-8058 ROOM: CS1 3C3
PM TEAM REVIEWER: BRIGID LOWERY 703-308-8053 ROOM: CS1 3G6
RECEIVED DATE: 07/13/93 DUE OUT DATE: 03/10/94

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 194368 EXPEDITE: N DATE SENT: 08/23/93 DATE RET.: / /
CHEMICAL: 069105 Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12,
DP TYPE: 001 Submission Related Data Package

CSF: N

LABEL: N

ASSIGNED TO	DATE IN	DATE OUT	ADMIN DUE DATE: 11/21/93
DIV : EFED	08/24/93	/ /	NEGOT DATE: 11/21/93
BRAN: EEB	08/25/93	4/2/96	PROJ DATE: / /
SECT: <u>IV</u>	4/2/96	4/2/96	
REVR : <u>winds</u>	4/2/96	4/2/96	
CONTR:	/ /	/ /	

* * * DATA REVIEW INSTRUCTIONS * * *

On 10/2/92, EEB reviewed an early life stage fish study and a life cycle invertebrate study. (72-4a = 42302102; 72-4b = 42302101) Both studies were graded supplemental. The life cycle study could be upgraded pending a response concerning the feeding regime and add'l info. from the range finding study. The invertebrate study was graded supplemental because a LOEC was not achieved. Attached please find a 7/12/93 ltr. which contains the registrant's response to the 10/92 review. (CSMA submits the info. on behalf of the ADBAC registrants.) I requested that this information be resubmitted and formatted correctly to receive a mrid while I sent it into review. Any questions please give me a call on 308-8053. Thanks Brigid Lowery

* * * DATA PACKAGE EVALUATION * * *

No evaluation is written for this data package.

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

March 20, 1996

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Review of Information Submitted to Support the Upgrade of Previously Reviewed *Daphnia magna* Life Cycle and Fish Early Life Stage Studies.

FROM: Anthony F. Maciorowski, Chief
Ecological Effects Branch
Environmental Fate and Effects Division (7507C)

TO: Larry Schnaubelt (PM 72)
Reregistration Branch
Special Review and Reregistration Division (7508W)

Handwritten: N. C. 6/2/96

EEB has reviewed the information submitted to support the upgrade of the previously Reviewed *Daphnia magna* Life Cycle and Fish Early Life Stage Studies and has come to the following conclusions.

Daphnia magna Life Cycle Study¹

EEB agrees with the registrant that both the 9-day dose range-finding study and the definitive 21-day life cycle study were scientifically sound. In fact, when the 21-day study was originally reviewed (DP barcode D179742, Oct. 2, 1992) it was considered scientifically sound and was classified as supplemental. A supplemental classification does not mean that the study was invalid. What it means is that although the study was scientifically sound it lacks the information that would allow classification as core. In this case, an MATC could not be determined from the definitive study. We cannot use information from a separate study to upgrade the original definitive study. As such, the study will not be upgraded and retains the supplemental classification. The information from the definitive study can be used in a risk assessment and based on the current use information for ADBAC (SHA# 069105), the study will not have to be repeated at this time.

Fish Early Life Stage Study²

EEB accepts the arguments presented by the registrant regarding the feeding regime used in the Fish Early Life Stage study. Based on the information submitted EEB hereby upgrades the classification of the Freshwater Fish Early Life-Stage Test (MRID 423021-02) to CORE. Based on mean measured concentrations, the NOEC and LOEL for *Pimephales promelas* were 32.2 and 75.9 $\mu\text{g/l}$. The MATC was calculated to be 49.4 $\mu\text{g/l}$.

1. McIntyre, D.O. and H.O. Pate, 1992, Daily Static-Renewal Chronic 21-Day Toxicity Test of Alkyl dimethyl Benzyl Ammonium Chloride (ADBAC) to *Daphnia magna*, Batelle Study No. SC890056, conducted by Batelle Columbus Operations, Columbus, OH, submitted by ADBAC Quat Joint Venture/Chemical Specialties Manufacturers Association, Washington, D.C., EPA MRID No. 423021-01.

2. McIntyre, D.O. and H.O. Pate, 1992, Daily Static-Renewal Early Life Stage Toxicity Test of Alkyl dimethyl Benzyl Ammonium Chloride (ADBAC) to Fathead Minnows, Batelle Study No. SC890057, conducted by Batelle Columbus Operations, Columbus, OH, submitted by ADBAC Quat Joint Venture/Chemical Specialties Manufacturers Association, Washington, D.C., EPA MRID No. 423021-02.